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EXAMINER

SHEDRICK, CHARLES TERRELL

ART UNIT	PAPER NUMBER
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2617

NOTIFICATION DATE	DELIVERY MODE
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10/08/2008

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

Office Action Summary	Application No. 10/566,801	Applicant(s) GARG, PARAG	
	Examiner CHARLES SHEDRICK	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 June 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

4. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rom EP 0589552 A2 in view of Hendrik et al. EP 0 851 633 A2, hereinafter, "Hendrik".

Consider **claims 1 and 11**, Rom teaches an Access Point device and method of network management in a network comprising a plurality of access points comprising: monitoring a communication channel between a mobile device and a first access point(e.g., see **col. 4 lines 53-56, col. 5 lines 12-13 and col. 5 lines 27-30**), at the first access point to determine whether a trigger event occurs(e.g., **col. 5 lines 28-30 and col. 5 lines 39-41**)(i.e., **determination made**

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solely by the access point), if the trigger event is determined to have occurred(e.g., **see col.5 line 49**)(i.e., **if the handoff is deemed necessary**): sending a switch-assessment request from the first access point to one or more other access points of the plurality of access points(e.g., **see col.6 lines 4-9**)(i.e., **determined through communication**), receiving a switch-assessment response from at least one of the one or more other access points(e.g., **see col.6 lines 4-9**)(i.e., **determined through communication**), selecting a select access point from the at least one of the one or more other access points based on the switch-assessment response(e.g., **see col.6 lines 4-9**)(i.e., **determined through communication**), sending a switch-command from the first access point to the mobile device(e.g., **see col. 2 lines 28-30 and col. 6 lines 51-55**) to establish a communication channel between the mobile device and the select access point(**col. 6 lines 54-55**)(i.e., **handoff accomplished**); and defining a plurality of access classifications associated with the mobile device and at least one or more other access points of the plurality of access points and selecting the select access point based at least in part on one or more access classification (i.e., **administrative domain or particular authority, quality of signal, and load**)(e.g., **see at least col. 3 line 64-col. 5 line 17 and col. 6 line 55- col. 7 line 5**).

However, Rom does not specifically teach an access point maintaining a message buffer for the mobile device until the switch from the access point to the select access point.

In analogous art, Hendrik teaches an access point maintaining a message buffer for the mobile device until the switch from the access point to the select access point (**e.g., see at least abstract and summary of invention**).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Rom to include an access point maintaining a message buffer

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for the mobile device until the switch from the access point to the select access point for the purpose of delivering messages to a roaming subscriber as taught by Hendrik.

Consider **claims 2 and 12 and as applied to claims 1 and 11**, Rom as modified by Hendrik teaches wherein the trigger event is based at least in part on at least one of: a signal strength of communications from the mobile device an error rate associated with communications to the mobile device, and traffic through the first access point(e.g., see col. 4 lines 53-56).

Consider **claims 3, 13 and 20 and as applied to claims 1 and 11**, Rom as modified by Hendrik teaches the claimed invention further including determining a direction of movement of the mobile device, and wherein the trigger event is based at least in part on the direction of movement of the mobile device (i.e., **geographic location or predicted path with regarded to moving towards or away from an access point**)(e.g., see col. 5 lines 10-15).

Consider **claims 4 and 14 and as applied to claims 3 and 13**, Rom as modified by Hendrik teaches the claimed invention further including receiving other information at the first access point regarding communications from the mobile device and determining the direction of movement based at least in part on this other information (e.g., **information regarding signal quality**)(col. 5 lines 25-30).

However, Rom does not specifically teach an access point maintaining a message buffer for the mobile device until the switch from the access point to the select access point.

In analogous art, Hendrik teaches an access point maintaining a message buffer for the mobile device until the switch from the access point to the select access point (**e.g., see at least abstract and summary of invention**).

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Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Rom to include an access point maintaining a message buffer for the mobile device until the switch from the access point to the select access point for the purpose of delivering messages to a roaming subscriber as taught by Hendrik.

Consider **claims 5 and 15 and as applied to claims 1 and 11**, Rom as modified by Hendrik teaches the claimed invention further including providing configuration information to the mobile device to facilitate establishing the communication channel between the mobile device and the select access point (e.g., see **col. 6 lines 27-39 and col. 6 lines 51-55**).

Consider **claims 6 and 16 and as applied to claims 5 and 15**, Rom as modified by Hendrik teaches the claimed invention further including receiving the configuration information from the select access point (e.g., see **col. 6 lines 27-39 and col. 6 lines 51-55**).

Consider **claim 7 and as applied to claim 1**, Rom as modified by Hendrik teaches the claimed invention further, further including sending periodic messages from the mobile device to the first access point to facilitate the monitoring of the communications channel between the mobile device and the first access point (e.g., **the signal strength/ traffic data constantly transmitted by the mobile device, i.e., beacons e.g., are also well known in the art**)(**col. 4 lines 53-56**)

Consider **claims 8 and 17 and as applied to claims 1 and 11**, Rom as modified by Hendrik teaches the claimed invention wherein sending the switch-assessment request includes sending parameters associated with the mobile device to the one or more other access points (e.g., see **col. 5 lines 49-57 and col. 6 lines 40-55**).

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Consider **claims 9 and 18 and as applied to claims 8 and 17**, Rom as modified by Hendrik teaches the claimed invention wherein selecting the select access point is based at least in part on at least one of: a compatibility between the mobile device and the select access point, traffic at the select access point traffic of the mobile device, and a predicted path of the mobile device(e.g., see **col. 5 lines 49-57 and col. 6 lines 40-55**).

Consider **claim 10 and as applied to claim 1**, Rom as modified by Hendrik teaches wherein the access classifications include preferred, acceptable (**i.e., based upon the signaling threshold and quality of signal**), forbidden, subscription level (**i.e., see administrative domain and particular authority**), and quality of service parameters (**i.e., see quality of signal**) (e.g., see at least **col. 3 line 64-col. 5 line 17 and col. 6 line 55- col. 7 line 5**)..

Consider **claim 19 and as applied to claim 11**, Rom as modified by Hendrik teaches the claimed invention further including defining an access classification associated with the mobile device and at least one of the one or more other access points of the plurality of access points and selecting the select access point based at least in part on the access classification (e.g., see **col. 5 lines 49-57 and col. 6 lines 40-55**).

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHARLES SHEDRICK whose telephone number is (571)272-8621. The examiner can normally be reached on Monday thru Friday 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, V. Paul Harper can be reached on (571)-272-7605. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VINCENT P. HARPER/
Supervisory Patent Examiner, Art Unit 2617

/Charles Shedrick/
Examiner, Art Unit 2617

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September 30, 2008